



**Savannah River
Remediation**

AECOM | BECHTEL | CH2M | BWXT

December 9, 2015

SRS LIQUID WASTE OVERVIEW

Stuart MacVean
President and Project
Manager



Many Players, One Purpose

We do the right thing.

Site Landlord/Customer



Savannah River Nuclear Solutions
 Management & Operating Contractor



U.S. Forest Service-SR
 Forest & timber
 management (G Area)



CB&I/AREVA MOX Services
 MOX Fabrication Facility (F Area)



Parsons
 Salt Waste Processing Facility (J Area)



University of Georgia
 Savannah River Ecology
 Laboratory (A Area)



Centerra
 Security (B Area)

We do the right thing.

**SRR Parent
Companies**

AECOM



ch2m

BWXT
BWXT Technologies, Inc.

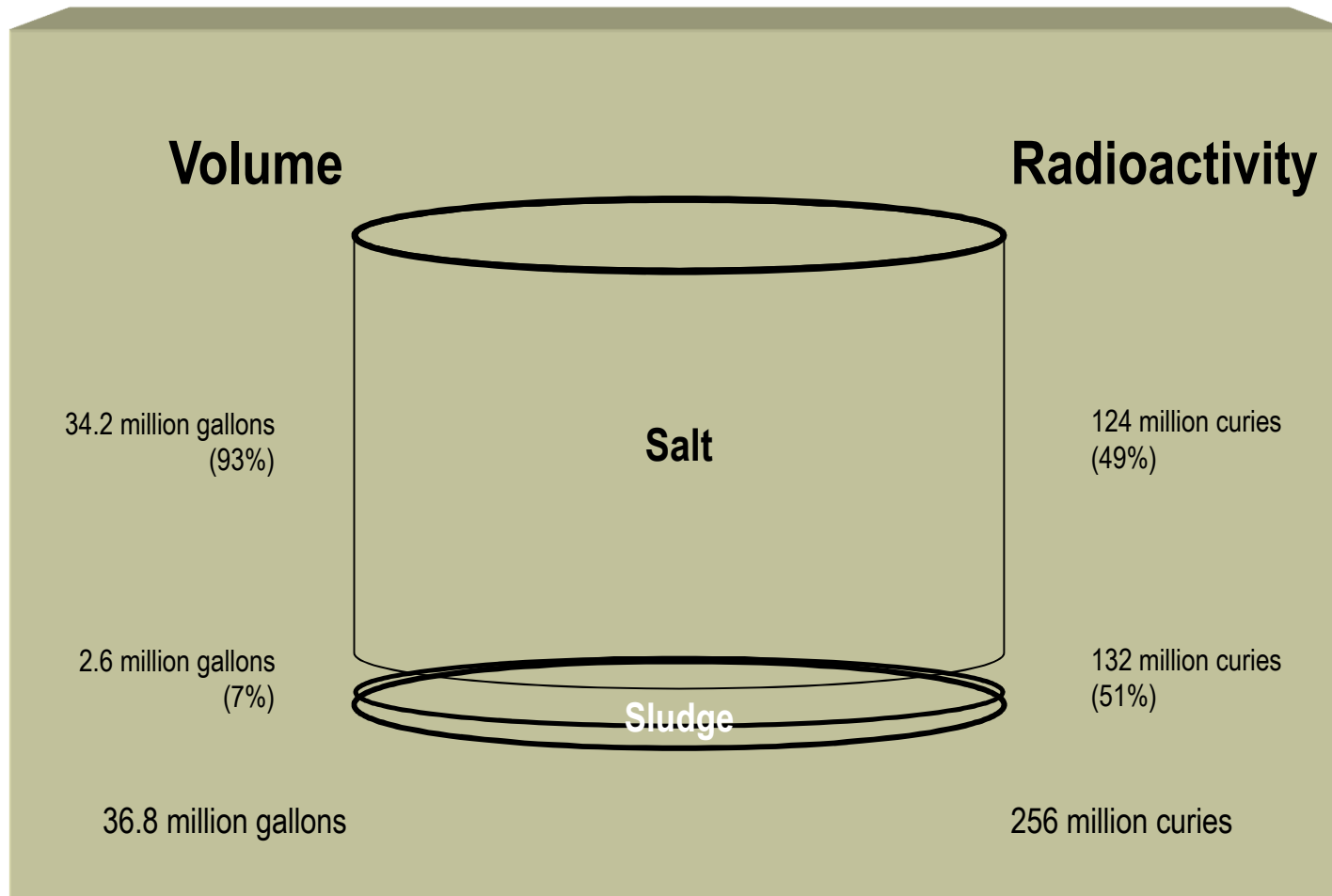
**SRR Significant
Subcontractors**

AREVA

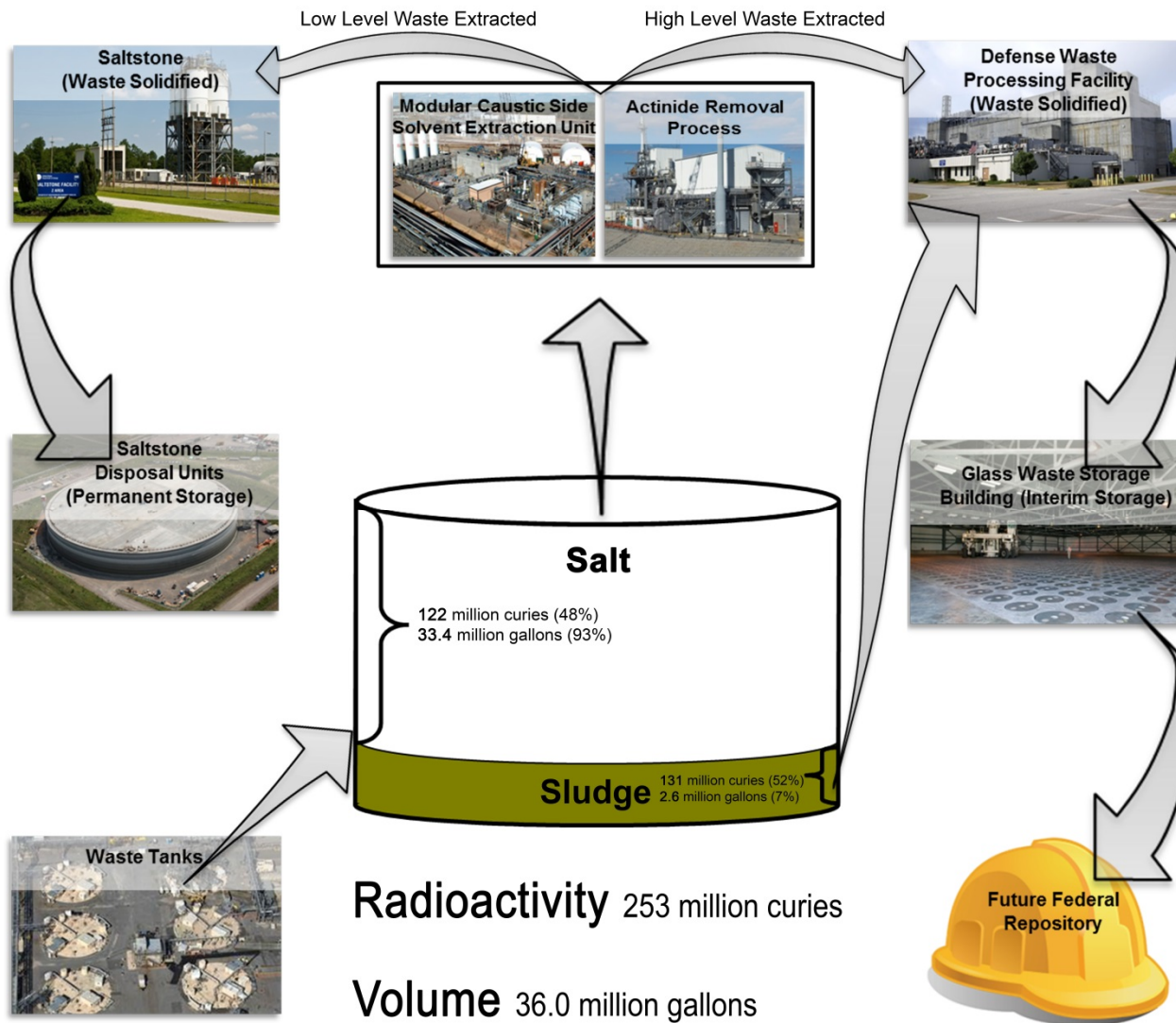
ENERGY SOLUTIONS

URS
Professional
Solutions

- SRR was awarded by DOE the 6-year base contract, plus 2 year option, for high-level waste clean-up at SRS
- SRR started the contract on July 1, 2009
- DOE extended the contract 2 years, to June 30, 2017
 - Current workforce of ~2,000 employees (including subcontractors)
- Setting records in safety
- Focused on liquid waste mission
 - High hazard operations
 - Managing waste tank space
 - Treating and dispositioning waste
 - Complex Engineering, Procurement, & Construction
 - Closing waste tanks



Inventory values as of 2015-03-31



Actinide Removal Process



Waste Tanks



Modular Caustic Side
Solvent Extraction Unit



Saltstone Production Facility



Defense Waste Processing Facility





Actinide Removal Process



Waste Tanks
(grout and glass)

Curie Stabilization



Modular Caustic Side
Solvent Extraction Unit



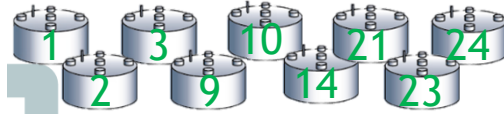
Saltstone Production Facility



Defense Waste Processing Facility



Safe
Storage



Bulk Waste
Removal



Heel
Removal



Cooling Coil
Flushing

Annulus
Cleaning

*Begin grouting: Target
1/25/16
FFA Closure Date:
5/31/16*

Isolation &
Final Sampling

Grout
Tank



- Tank Closures continue at a pace unheard of six years ago
 - Five tank closures completed during the past 6 years

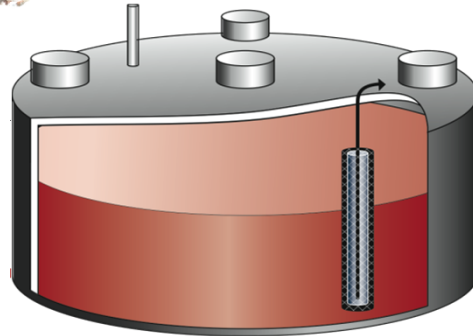


Tank 16 Grouting



Legacy Liquid Waste

43 tanks
37 Mgal
256 MCi



Legend:

ARP	Actinide Removal Process
BWRE	Bulk Waste Removal Efforts
DWPF	Defense Waste Processing Facility
MCU	Modular Caustic Side Solvent Extraction Unit
SWPF	Salt Waste Processing Facility

Salt waste
8.1 Mgal total salt treated

Salt Processing
5.3 Mgal processed

Sludge waste
3.9 Mgal treated



<1% radionuclides remain in tanks

51 Tanks

- 6 grouted & operationally closed
- 2 heel removal complete
- 6 BWRE complete
- 64% empty (old style)
- 20% empty (new style)



DWPF

Radionuclides



Glass Waste Storage

Most radionuclides to glass

Poured 3,965 canisters (15.4M pounds of glass) of projected 8,582 canisters
57 million curies immobilized in glass



ARP

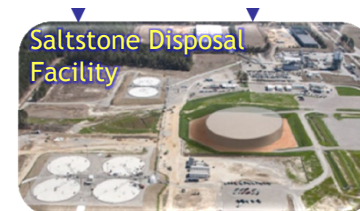


MCU



SWPF
(under construction)

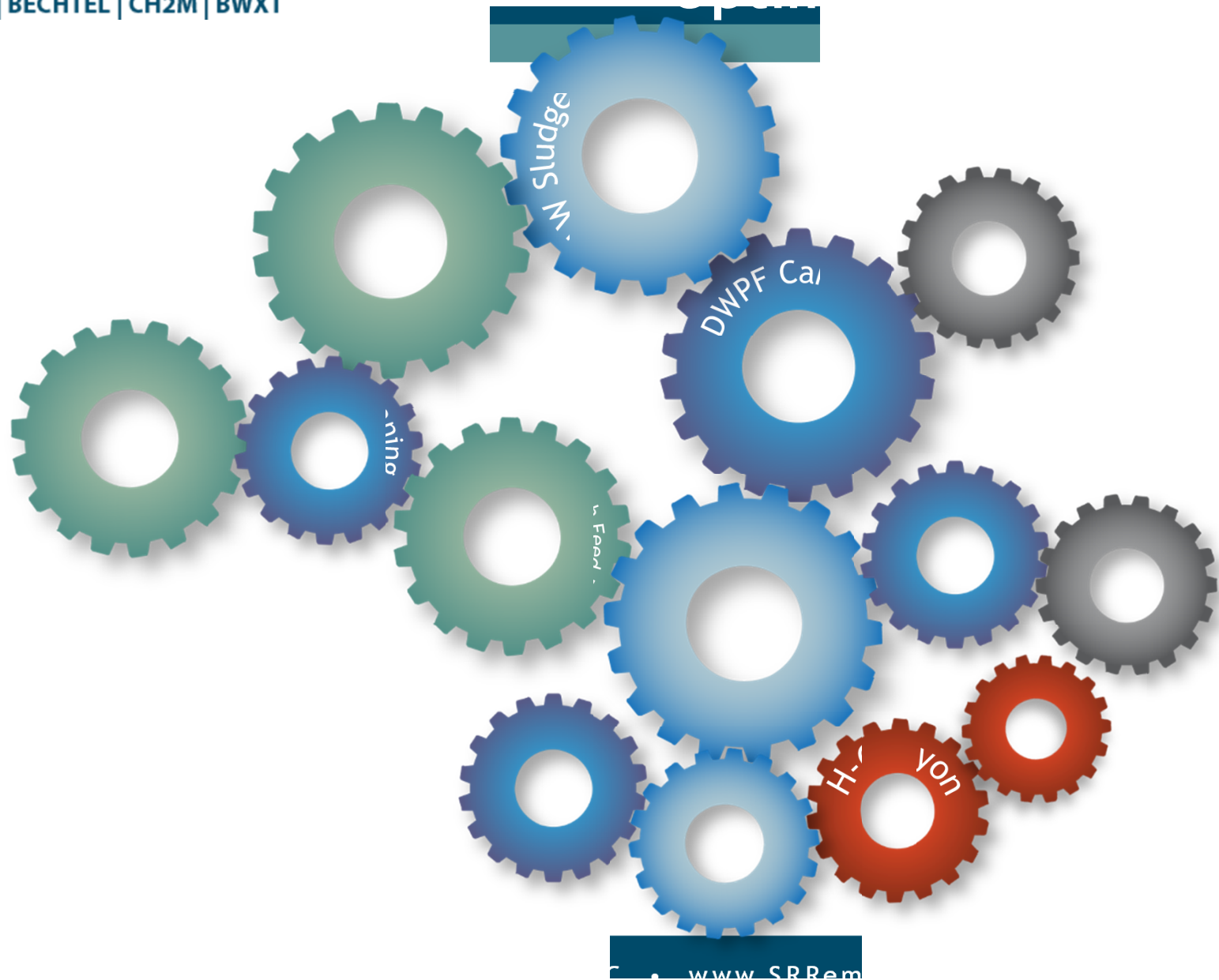
Solid (non-hazardous) waste



Saltstone Disposal Facility

<<1% radionuclides to saltstone

17.3 Mgal grout dispositioned containing 459 thousand curies





- **Our primary focus is on safe work**
 - Protect workers, public, environment
- **Continue to be good stewards of taxpayers' money**
 - Accelerating the cleanup saves money long-term
 - Technology is transferred to other sites, bringing more cost-savings
- **Supporting education and our future workforce**
- **Reaching out to our communities and our stakeholders**

